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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/838,170	04/20/2001	Shigemi Kurashima	1614.1162	9034

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EXAMINER

NGUYEN, KIMNHUNG T

ART UNIT

PAPER NUMBER

2674

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Please find below and/or attached an Office communication concerning this application or proceeding.

TS

Office Action Summary

Application No.

09/838,170

Applicant(s)

KURASHIMA ET AL.

Examiner

Kimnhung Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 April 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-29 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

This application has been examined. The claims 1-29 are pending. The examination results are as following.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-29 are rejected under 35 U.S.C. 102(e) as being anticipated by Berstis (US patent 6,229,526).

Regarding claims 1, 12, 16, Berstis discloses in figure 3 an input system (wireless system 101, 103, 106) comprising an information generation part which generates input information based on a given input operation; a transmission part (336) which transmits signals generated by having a plurality of different carrier frequencies modulated with the input information (see column 4, lines 44-46); and a reception part (370, figure 5) which receives the transmitted signals and demodulates (374) the signals into the input information (see figure 5).

Regarding claims 2, 17, Berstis discloses in figure 3, the input system further comprising wave direction parts which are provided close to said transmission part so as to provide the signals transmitted from said transmission part with directivity (see polling signal).

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Regarding claims 3, 15, 18 and 27, Berstis discloses wherein said wave direction parts are antennas (see polling signal).

Regarding claims 4, 19, Berstis discloses wherein said transmission part comprises a plurality of transmission circuits (see figure 3) for transmitting the signals of the different carrier frequencies (see column 4, lines 44-46).

Regarding claims 5-6, 20-21, Berstis discloses in figures 3 and 5, wherein said transmission part comprises an output part (336, figure 3) which outputs the different carrier frequencies, and modulation part (374, figure 5) which has the different carrier frequencies modulated with the input information.

Regarding claim 7, Berstis discloses wherein said reception part (370, figure 5) comprises a plurality of reception circuits (figure 5) for receiving the transmitted signals and demodulating (374) the signals into the input information (see figure 5).

Regarding claims 8-9, 22, Berstis discloses the input system further comprising an inherent pad member including conductive wire, and further comprising a conductive part (remote control).

Regarding claims 10, 23, Berstis discloses an inherent conductive plate member (printed circuit board), and conductive part (remote control), therefore, wherein said conductive part contacts said conductive plate member so that the signals transmitted from the transmission part are transmitted via said conductive part to the conductive plate member.

Regarding claims 11, 24, Berstis discloses wherein the input system comprising a plurality of wave direction parts (see polling signal) for receiving the signals transmitted

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from said transmission part (336, figure 3), said wave direction parts being provided on a side of said reception part (370, figure 5).

Regarding claims 13, 25, and 28-29, Berstis discloses in figure 1D, the input system further comprising a switching part (see button in figure 1D, or switches 318, 320, 322, 324 of figure 2) which transmits the transmitted signal selectively to one of said wave direction parts based on a control signal supplied from said information generation part.

Regarding claims 14 and 26, Berstis discloses in figure 3, wherein said transmission part (336) comprises a plurality of transmission circuits (figure 3) for transmitting the signal.

Regarding claim 23, Berstis discloses a conductive part (remote control 106) on a bottom of the input device, wherein said conductive part contacts an inherent conductive plate member (may be printed circuit board) so that the signals transmitted from said transmission part are transmitted via said conductive part to the conductive plate member.

Response To Arguments

3. Applicant's arguments filed on 4-29-03 have been fully considered but they are not persuasive in view of new ground rejection.

Applicant argues that Berstis and Shah fail to teach or suggest "a transmission part which transmits signals generated by having a plurality of different carrier frequencies modulated with

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the input information". However, this argument is not persuasive due to the teaching of Berstis as disclosed above.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimnhung Nguyen whose telephone number (703) 308-0425.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **RICHARD A HJERPE** can be reached on **(703) 305-4709**.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D. C. 20231

Or faxed to:

(703) 872-9314 (for Technology Center 2600 only).

Hand-delivery response should be brought to: Crystal Park II, 2121 Crystal Drive, Arlington, VA Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Kimnhung Nguyen
November 24, 2003



**RICHARD HJERPE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600**